

POYARKOVA, A. I.

Materials on a monograph on the genera *Andrachne* L. and
Leptopus Decne. Bot.mat.Gerb. 20:251-274 '60.

(MIRA 13:7)

(*Andrachne*)

POYARKOVA, A.I.

Critical notes on the genus *Cacalia* L. s.l. Bot.mat.Gerb.
20:370-391 '60. (MIRA 13:7)
(Groundsel)

Poyarkova, K. D.

124-1957-10-11784

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 85 (USSR)

AUTHOR: Poyarkova, K. D.

TITLE: To the Problem of the Seepage of a Liquid in Nonhomogeneous Curved Strata (K voprosu o fil'tratsii zhidkosti v neodnorodnykh iskrivlennykh sloyakh)

PERIODICAL: Uch. zap. Mosk. obl. ped. in-ta, 1956, Vol 43, pp 35-45

ABSTRACT: An investigation of the laminar flow of a homogeneous, incompressible fluid toward a tunnel located in a permeable stratum of uniform thickness, resting upon an arbitrary surface. Between the contours of the supply and drainage (the tunnel) the filtering layer is composed of a finite number of homogeneous annular regions, on the boundaries of which, as well as on the supply and drainage contours, the pressure is assumed to be constant and continuous in the transition from each region into the adjacent one. In order to solve the problem, a system of curvilinear orthogonal coordinates (p, q) was selected in such a manner as to ensure that the given boundaries of the adjacent homogeneous regions located on a curvilinear surface, as well as the supply and the drainage contours, form one of the families of coordinate lines

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124-1957-10-11784

To the Problem of the Seepage of a Liquid (cont.)

(lines $p = \text{const}$). A formula for the outflow loss of the tunnel was obtained; the function derived is analogous to the well-known function for a tunnel in a flat homogeneous layer.

Bibliography: 8 references.

V. P. Pilatovskiy

Card 2/2

REMEZOV, N.M. (reception). GABRIELIAN, A.M., GABRIELIAN, A.M., GABRIELIAN, A.M.,
L.G.; Priznaniya i zasluzheniya, BYROVA, L.M.; SHUMKOVA, L.M.,
UTENKOVA, A.P.; POYARKOVA, L.M.; SVIRIDOVA, N.M.

Dynamics of the interaction of oak forests and soils.
Pochvovedenie no.3:1-14 Mr '64. (Mosc. 1964)

1. Sotrudniki kafedry pochvovedeniya Moskovskogo gosudarstvennogo
universiteta imeni Lomonosova (for Samoylova, Bogashova, Tykova,
Shmurova, Utenkova). 2. Sotrudniki Voronezhskogo zapovednika
(for Poyarkova, Sviridova).

POYARKOVA, L. V. (co-author)

See: SOLOV'YEA, A. I. Cotton Wilt, Verticillium dahliae, 1946

S o: Sira-Si-90-53, 15 Dec 1953

POYARKOVA, L. V.

"Search for a Soil Treatment to Control Cotton Wilt," in Results of the Work of
the Station of Plant Protection of the All Union Order of Lenin Scientific-Research
Institute of Cotton Production on the Study of Pests and Diseases of Cotton
and Lucerne for 1939, (Auto references and References), Publishing House
of the All Union of Lenin Scientific-Research Institute of Cotton Production,
Tashkent, 1941, pp. 48-49. 464.04 T18

So: Sira-Si-90-53, 15 Dec. 1953

POYARKOVA, L. V.

"Study of the Causes Which Reduce the Supply of the Cotton Wilt Organism in the Soil," in Results of the Work of the Station of Plant Protection of the All Union Order of Lenin Scientific-Research Institute of Cotton Production on the Study of Pests and Diseases of Cotton and Lucerne for 1939 (Auto-references and References) Publishing House of the All Union Order of Lenin Scientific-Research Institute of Cotton Production, Tashkent, 1941, pp. 46-47. 464.04 T18

So: Sira-Si-90-53, 15 Dec. 1953

POYASKOVA, I. V.

Solov'yeva, I. I., and Poyaskova, I. V. Cotton Wilt, Verticillium dahliae, State
Agricultural Publishing House Uzbek SSR, Tashkent, 1960, 60 pp. h04.012 SOL

So: SIRA - Si-9C-53, 15 Dec 1953

POYARKOVA, L. V.

Solov'yeva, A. I., and Poyarkova, L. V. Fusarium Milt (F. vasinfectum) of Egyptian Cotton, State Publishing House of Uzbek SSR, Tashkent, 1945, 87 pp. 45k.042 Solv

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POYARKOVA, L. V.

"Efficiency of Alfalfa as a Predecessor of Cotton in Control of Cotton Wilt " in Cotton Disease, All Union Scientific-Research Cotton Institute, Tashkent, 1938, pp. 102-108. 464.042 T18

So: Sira-Si-90-53, 15 Dec. 1953

VOROB'YEV, A.A.; KOROBOV, A.M.; ~~POYARKOVA, M.A.~~; KORNEV, I.S.;
ANDPOSHCHUK, S.M.; prinimali uchastiye: MORDUYEVA, A.A.; IGONINA,
Yu.A.; CHERNOVA, Yu.S.; NIKOLAYENKO, Yu.P.; MAKAROVA, V.A.

Method for preparing sorbed tetanus anatoxin from a purified and
concentrated toxin. Zhur.mikrobiol., epid.i immun. 33 no.8:107-112
Ag '62. (MIRA 15:10)

(TOXINS AND ANTITOXINS) (TETANUS)

VOROB'YEV, A.A.; VASIL'YEV, N.N.; PATRIKEYEV, G.T.; ZYBIN, V.D.; KORNEV, I.S.;
ANAN'YEVA, Ye.P.; Primalni uchastiye: ANDROSHCHUK, S.M.; IGONINA, Yu.S.;
SHMELEV, V.M.; MORDUYEVA, A.A.; NIKOLAYENKO, Yu.P.; MAKAROVA, V.A.;
CHERNOVA, Yu.S.; POYARKOVA, M.A.

Study of botulin anatoxins. Report No.1: Botulin anatoxin type A.
Zhur. mikrobiol., epid. i immun. 32 no.9:31-36 S '61. (MIRA 15'2)
(CLOSTRIDIUM BOTULINUM) (TOXINS AND ANTITOXINS)

VOROB'YEV, A.A.; VASIL'YEV, N.N.; YENICHEV, V.M.; PATRIKEYEV, G.T.;
SHEVELEV, V.M.; ZYBIN, V.D.; KORNEV, I.S.; ANAN'YEVA, Ye.P.
Prinimali uchastiye: ANDROSHCHUK, S.M.; NIKOLAYENKO, Yu.P.;
MAKAROVA, V.A.; CHERNOVA, Yu.S.; POYARKOVA, M.A.; IGONINA, Yu.A.;
MORDUYEVA, A.A.

Study of botulin anatoxins. Report No.2: Botulin anatoxin type B.
Zhur.mikrobiol., epid. i immun. 32 no.10:68-72 O '61. (MIRA 14:10)
(CLOSTRIDIUM BOTULINUM) (TOXINS AND ANTITOXINS)

1. POYARKOVA, M. Z.
2. USSR (600)
4. Aktash Deposits - Muscovite
7. Sericitic rock of the Aktash upper alumina deposits. [Abstract] Izv.Glav.upr. geol.fon. No. 2, 1947.

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BARBARICH, A.I.[Barbarych, A.I.], kand. biol. nauk; BRADIS, Ye.M., doktor biol. nauk; VISYULINA, O.D., doktor biol. nauk; VOLODCHENKO, V.S.; DOERCHAYEVA, D.M., kand. biol. nauk; KARNAUKH, Ye.D.; KATINA, Z.F., kand. biol. nauk; KOTOV, M.I., doktor biol. nauk; KUZNETSOVA, G.O.[Kuznetsova, H.O.], kand. biol. nauk; OLYANITSKOVA, L.G.[Olianits'ka, L.H.]; OMEL'CHUK, T.Ya., kand. biol. nauk; POYARKOVA, O.M.; PROKUDIN, Yu.M., doktor biol. nauk; PROTOPOPOVA, V.V.; SLYUSARENKO, L.N.; SMOLKO, S.S.; KHRZHANOVSKIY, V.G. [Khrzhanovs'kyi, V.H.], doktor biol. nauk; ZEROV, D.K. akademik, otv. red., ONISHCHENKO, L.I., red.

[Key for the identification of plants in the Ukraine] Vyznachnyk roslyn Ukrainy. Vyd.2., vypr. i dop. Kyiv, Urozhai, 1965. 876 p. (MIRA 18:9)

1. Akademiya nauk URSR, Kiev. Instytut botaniky. 2. AN Ukr.SSR (for Zerov). 3. Moskovskaya sel'skokhozyaystvennaya akademiya im. K.A.Timiryazeva (for Khrzhanovskiy).

POYARKOV, Mikhail Fedorovich. Prinimala uchastiye POYARKOVA. T.M.;
IOKHVIDOV, E.S., red.

[Electrical equipment of power plants] Elektricheskoe
oborudovanie stantsii. Moskva, Energiia, 1964. 567 p.
(MIRA 17:12)

MAMONOV, Petr Nikanorovich; MAGARSHAK, B.G., retsenzent; POYARKOVA,
T.M., retsenzent; KRASIL'SHCHIKOV, L.B., nauchnyy red.;
KVOCHKINA, G.P., red.; SHISHKOVA, L.M., tekhn. red.

[Book of problems in electric measurements] Sbornik zadach po
elektricheskim izmereniam. Leningrad, Sudpromgiz, 1962. 105 p.
(MIRA 16:1)

(Electric measurements)

POYARKOV, Mikhail Fedorovich. Primala uchastiye POYARKOVA, T.M.;
IOKHVIDOV, E.S., red.

[Electrical equipment of power plants] Elektricheskoe oborudovanie stantsii. Moskva, Energiia, 1964. 567 p.
(MIRA 17:12)

POYARKOV, Mikhail Fedorovich; POYARKOVA, Tat'yana Mikhaylovna. Prinimal
uchastiye BUDZKO, I.A., ZUYEVA, K.N., red.; NIKITINA, V.M., red.;
BACHURINA, A.M., tekhn.red.; PEVZNER, V.I., tekhn.red.

[Rural electric power stations and substations] Sel'skie elektri-
cheskie stantsii i podstantsii. Izd.2. Moskva, Gos.izd-vo sel'khoz.
lit-ry, 1959. 351 p. (MIRA 13:4)
(Electric power plants)

POYARKOV, Mikhail Fedorovich; POYARKOVA, Tat'yana Mikhaylovna; GLAZATOV, N.N.,
red.; CHERNYAK, L.Ye., red.; GOR'KOVA, Z.D., tekhn.red.; PEVZNER,
V.I., tekhn.red.

[Laboratory and practical studies on rural electric stations and
substations] Laboratorno-prakticheskie zaniatiia po sel'skim
elektricheskim stantsiiam i podstantsiiam. Moskva, Gos. izd-vo
sel'khoz. lit-ry, 1958. 212 p. (MIRA 11:6)
(Electric power plants) (Electric substations)

А. Н. Брейсод, А. Н. Азиев, В. Н. Мухом.
А. П. Селин

Образцы электротехнических устройств для измерения электропроводности в диапазоне $0.5-1.0$ см.

А. Д. Селевский,
В. А. Югов,
В. Н. Кривоносов,
А. Н. Дуров

Плановые балансы для измерения мощности СВЧ

А. Н. Мамкин

Отзывы на параметры радиостанции

Н. Б. Михайлов

О измерении мощности радиоизлучения в диапазоне $2-35$ МГц

В. С. Брусилов

Метод измерения и оценки электропроводности в диапазоне от 10 до 20 МГц

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(с 10 до 22 часов)

40

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В. Е. Писарев

Метод точного измерения параметров радиостанции в диапазоне $0.5-1.0$ см

Н. Р. Гавар, В. Н. Югов

Устройство для измерения спектра излучения в радиодиапазоне и субмиллиметровом диапазоне

В. В. Криво

В. Н. Виноградов

Измерение радиотехнических параметров спектра радиоизлучения в диапазоне СВЧ

А. Н. Брейсод

Точные измерения КСВН с помощью фотометрических и оптических методов

11 июня

(с 10 до 16 часов)

А. Н. Брейсод

Методы измерения электропроводности в диапазоне $0.5-1.0$ см.

41

report submitted for the Centennial Meeting of the Scientific Technological Society of
Radio Engineering and Electrical Communications in. A. S. Popov (VSEK), Moscow,
8-12 June, 1959

SAITSMAN, Ye.B.; DOWDING, J. F.

Measuring high voltage standing wave ratio. R. Rev. Sci. Instr.
33-36 Apr 1962.

ZAL'TSMAN, Ye.B.; POYARKOVA, V.Ye.

Certain systematic error in measuring specific inductive capacitance using a resonance method with an Holn resonator. ~~Grady~~ inst. Kom. stand., mer i izm. prib. no.65:80-84 '62. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy.
(Dielectrics--Measurement) (Electric measurements)

ACCESSION NR AT3013124

S/2589/62/000/065/0080/0084

AUTHOR Zal'tsman, Ye. B., Poyarkova, V. Ye.

TITLE Concerning one systematic error in the measurement of the dielectric constant by the resonance method using an H_{01n} cavity

SOURCE USSR. Komitet standartov, mer 1 izmeritel'nykh priborov. Trudy* institutov Komiteta, no. 65, 1962, 80-84

TOPIC TAGS dielectric constant, dielectric constant measurement, resonance method, resonant cavity, H_{01n} mode, dielectric sample dimension tolerance

ABSTRACT The systematic error due to the peripheral gap between the sample and the cavity walls is analyzed theoretically and experimentally because no exact determination of this error has been published heretofore, and consequently no tolerances for the dielectric sample dimensions were established. An equation is derived:

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$$\frac{\Delta \epsilon}{\epsilon} = -\frac{2}{3} \epsilon_0^2 \frac{(\epsilon - 1)}{\epsilon} \left(1 - \frac{b}{a}\right)^2$$

where ϵ is the dielectric constant, $\Delta \epsilon / \epsilon$ is the relative error in the dielectric constant, ϵ_0 the root of the Bessel function $J_1(x)$, and b and a are the widths of the specimen and the cavity, respectively. The analysis is made for a rectangular cavity. An experimental check on the correctness of this formula showed good agreement, and it is concluded that the tolerances on the dimensions of the sample are not stringent for the H_{01n} mode, but can be important in other modes. Orig. art. has 4 figures, and 7 formulas.

ASSOCIATION VNIIFTRI

SUBMITTED Jul 61

SUB CODE EE

DATE ACQ 28Oct63

NO REF SOV 004

ENCL 00

OTHER 005

Card 2/2

ZAL'TSMAN, Ye.B.; POYARKOVA, V.Ye.

Use of a cylindrical rod for rousing the H_{01n} mode in a resonator.
Radiotekh. i elektron. 6 no.10:1764-1767 0 '61. (MIRA 14:9)
(Microwaves) (Electric resonators)

29772

S/194/61/000/006/063/377

D201/D302

24,2400

AUTHORS: Burdun, G.M., Zal'tsman, Ye.B. and Poyarkova, V.Ye

TITLE: Apparatus for measuring the specific inductive capacity and loss angle of dielectrics in the 8 mm wave range

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1961, 15, abstract 6 I82 (V sb. '100 let so dnya rozhd. A.S. Popova', M., AN SSSR, 1960, 194-201)

TEXT: The resonance method is used, in which the resonant length and Q-factor of the resonator (R) is measured before and after the introduction of the analyzed sample. A saw-tooth generator frequency modulates a klystron oscillator operating at about 37,000 mc/s. The signal is applied to a directional coupler through a decoupling attenuator and divided by the coupler in ratio 1:10. The measuring resonator is connected to the primary branch of the coupler through an attenuator. The resonator has a matched load. A straight-

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Apparatus for measuring...

through type resonance wavemeter is connected to the secondary branch. Voltages from the resonator and wavemeter detectors are separately amplified and then, through an electronic switch, applied to the vertical deflection system of an oscilloscope. A differentiating network is inserted into the amplifying circuit of wavemeter detector voltage. When the resonator and waveguide are tuned to resonance - the CRO screen shows, simultaneously, the resonant curve of the resonator and the differentiated curve of the wavemeter, whose vertical part is taken as a frequency marker. The same saw-tooth which is used to frequency modulate the klystron oscillator is applied to the horizontal deflection plates of the scope. By displacement of the piston, the non-filled resonator is so tuned that the resonance curve intersects the vertical marker of the waveguide at its middle which gives the determination of the resonant length of the empty resonator. Similarly the resonant length of the resonator filled with dielectric is obtained. When measuring the Q-factor of the resonator, the level is initially determined by

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Apparatus for measuring...

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means of a calibrated attenuator which corresponds to the half amplitude level of the resonant peak. The wavemeter marker was displaced in the vertical direction for its horizontal base to coincide with this level. After disconnecting the calibrating attenuator the wavemeter was returned so that the marker intersected the resonance curve at half of its amplitude level at both sides of its peak. The errors introduced by the apparatus are analyzed. At $Q > 17500$ and with losses in the sample four times greater than those in the resonator walls, the error in determining the $\tan \delta$ was $\leq \pm 12\%$. The limits of $\tan \delta$ measurements are $3 \times 10^{-4} - 50 \times 10^{-4}$, those of ϵ , with an accuracy $\pm 1\%$, are 1 - 150. [Abstracter's note: Complete translation]

X

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29325

S/109/61/006/010/023/027
D201/D302

9,1300

AUTHORS: Zal'tsman, Ye.B., Poyarkova, V.Ye.

TITLE: "Excitation" of the H_{01n} in a resonator by means of
a cylindrical rod

PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 10, 1961,
1764 - 1767

TEXT: The authors analyze and give the results of experiments
with an H_{01n} wave resonator tuned by means of a cylindrical rod in-
troduced into its end face. The resonator can be used in the same
manner as a piston tuned one in applications of SHF (semi axial
wavemeters). To evaluate the changes of the resonant frequency,
the authors apply the well-known formula for disturbance of an
electromagnetic resonator. Substituting into this formula the ex-
pressions for the electric and magnetic fields of the H_{01} wave and
by integrating it in the cylindrical system of coordinates, the
following expression may be obtained for frequency detuning of the
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"Excitation" of the H_{01n} ...

resonator,

$$\frac{f - f_0}{f_0} = \frac{\gamma}{4\pi n J_0^2(\xi_{01})} \left(\frac{r}{R}\right)^2 \left\{ x(\beta_2 - \beta_1) + \sin x \left[\left(\frac{2}{\gamma} - 1\right)\beta_1 - \beta_2 \right] \right\}, \quad (1)$$

where f_0 - the resonant frequency of the undisturbed resonator; f - the same with the introduced rod,

$$\gamma = \left(\frac{\xi_{01}}{2\pi}\right)^2 \left(\frac{\lambda}{R}\right)^2;$$

$$x = 4\pi \frac{h}{\lambda_1}; \quad \beta_1 = J_0^2(y) + J_1^2(y) - \frac{2}{y} J_1(y) J_0(y);$$

$$\beta_2 = J_0^2(y) + J_1^2(y); \quad y = \xi_{01} \frac{r}{R};$$

J_0, J_1 = Bessel functions of the 1st kind and zero order; ξ_{01} - the first root of function $J_1(y)$, $\xi_{01} = 3.8317$; λ - wavelength of TEM, wave corresponding to f_0 ; r, R, h and L are as shown in Fig. $L = n(\lambda_e/2)$, where λ_1 - the wavelength along the resonator axis; n - number of half waves along the resonator axis. Eq. (1) shows

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"Excitation" of the H_{01n} ...

that detuning is a function of three dimensionless parameters: r/R , H/λ_e and λ/R . The family of curves as evaluated from Eq. (1) for a fixed value of $\lambda/R = 1$ is given. It is seen that detuning is non-linear and could be only sectionally evaluated as a linear function, so that it is worthwhile using this section to tune the resonator to the H_{01n} wave at a frequency, to which corresponds the section of the curve with a large slope around the point $h/\lambda_e = 0.25$. Differentiating Eq. (1) at point $x = \pi(h/\lambda_e = 0.25)$ the equation of the tangent of this section is obtained as

$$\Delta f = \frac{f_0}{G} G \Delta h \quad (2)$$

where

$$G = \frac{1}{J_0^2(\xi_{01})} \left(\frac{r}{R} \right)^2 (\beta_2 - \beta_1).$$

It is L - the resonant length of the undisturbed resonator; f_0 - its frequency with the rod inserted quarter-wave deep. Eq. (2) per-

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"Excitation" of the H_{01n} ...

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mits evaluation of the tuning bandwidth for given dimensions of the rod and vice versa for a given bandwidth - of the rod dimensions. Experimental checking is made simply by calibrating against frequency the varying depth of the insertion of the rod and the calibration curve compared with the theoretical one. The experimental verification of the theory has been carried out at 8 mm wavelength. It was found that the experimental and theoretical curves are in good agreement, the discrepancy increases, however, for large values of r/R proportionately to $(r/R)^2$. It is stated in conclusion that the results obtained show that formulae (1) and (2) can be successfully applied for evaluating the resolving properties of the resonator, using the linear part of its frequency response. There are 3 figures, 2 tables and 3 Soviet-bloc references.

SUBMITTED: October 28, 1960

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POYARKOVA, V. Ye.

100 Let so dnya rojdeniya A.S. Popova; yubileynaya sessiya (On Hundredth Anniversary of the Birth of A.S. Popov; Anniversary Session) [Moscow] Izdatvo AN SSSR, 1960. 512 p. Errata slip inserted. 2,000 copies printed.

Sponsoring Agency: Akademiya NTSR.

Chief Ed.: A.L. Mints; Academician; Editorial Board: G.D. Burdun, A.S. Volpert, I. Ye. Gorn, L. I. Gurevich; Editorial Board: A.D. Derzhavskiy, L.A. Zaslavskiy, A.I. Sakayev, M.S. Meyn, V.I. Litvinov and E.I. Chistyakov; Ed. of Publishing House: L.V. Gerasimov; Tech. Ed.: A.S. Markovitch.

FOREWORD: This collection of reports is intended for scientists and technicians working in radio engineering and telecommunications.

CONTENTS: The reports included in this collection were submitted at the scientific meeting held in 1959 by the Nauchno-tekhnicheskoye obshchestvo radioelektroniki i elektromekhaniki in A.S. Popova (Scientific and Technical Society of Radio Electronics).

Engineering and Telecommunication (A.S. Popov) in commemoration of the 100th anniversary of A.S. Popov's birth. Only 59 of the more than 300 reports submitted at the meeting are included. The remainder are published in the periodicals of the AN SSSR. Reports are published in the periodicals of the Society of Radio Electronics, the Ministry of Communications, and the Ministry of Defense. The book contains the reports read at plenary sessions by A.L. Shchukin, Academician, and E.I. Gurevich, Corresponding Member, AN SSSR, and E.I. Adirovich and L.I. Gurevich, Professors, as well as those submitted as the most interesting given in the following sections by their respective chairmen: Theory of Information, Antenna Systems, Receiving Devices, Wire Communications, Television, Electronics, Radio Measurement, Radio Navigation, Transmitting Devices, Radio Wave Propagation, Electronic Radio Engineering, Measuring Devices, Electronics and Sound Recording, Electronic Computing, and Super-Ferrite Devices. These chairmen were on the Editorial Board which prepared the papers for publication. References accompany most of the reports.

On Hundredth Anniversary (Cont.)

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Pager, A.S., Concerning the Theory of Parametric Frequency Amplification and Conversion in Waveguide Systems	179
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Burdun, G.D., Ye.B. Zaitseva, and V.Ye. Popovskiy, Installation For Measuring Dielectric Permeability and Dielectric Loss-Angle Tangent in the Super Wave Band	194
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Gusev, V.D., Yu.V. Kuznetsov, and S.P. Mironov, Comparison of Results of Observation of Large and Small Nonuniformities in the P ₂ Layer	211

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POYARKOVA, Ye.D., AKIMOVA, N.I.

The Moscow Province Red Cross. Zdrav.Ros.Feder. 2 no.11:12-21 N '58
(MIRA 11:12)

(MOSCOW PROVINCE--RED CROSS)

POYARKOVA, Ye.N.; KUTSENKO, I.I.

Morphological structure of seedlings in some meadow grass (Poa L.) species at the early stages of their development. Nauch.dokl.vys. shkoly; biol.nauka no.3:88-90 '65. (MIRA 18:8)

1. Rekomendovana kafedroy vysshikh iasteriy Novoskovskogo gosudarstvennogo universiteta im. A.M. Gorkogo.

POYARKOVA, Ye.N. [Poiarkova, O.M.]

Some Carpathian species of meadow grass (Poa L.). Ukr.bot.zhur.
18 no.6:40-44 '61. (MIRA 15:3)

1. Khar'kovskiy gosudarstvennyy universitet, kafedra vysshikh
rasteniy.
(Carpathian Mountain region--Meadow grass)

POYARKOVA, Z.N.; IL'IN, V.D.

Radiolite horizon in the Isfayram-Sokh interfluve (Fergana). Dokl.
AN SSSR 162 no.6:1364-1366 Je '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy
institut. Submitted March 12, 1965.

POYARKOVA, Z.N.

Boundaries of the Turonian and Senonian in the Alay Range.
Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 4 no.7:97-101 '62.
(MIRA 16:3)
(Alay Range--Geology, Stratigraphic)

POYARKOVA, Zoya Nikolayevna; DROBYSHEV, D.V., prof.; CHIZHOV, A.A., ved.
red.; SAFRONOVA, I.M., tekhn. red.

[Key wells of the U.S.S.R.; Chulym Key well (Tomsk Province)]
Chulymskaya opornaya skvazhina (Tomskaya oblast'). Leningrad,
Gos. nauchno-tekhn. izd-vo nef. i gorno-toplivnoi lit-ry
Leningradskoe otd-nie, 1961. 136 p. (Leningrad. Vsesoiuznyi
neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut.
Trudy, no.183.). (MIRA 15:5)

(Chulym Valley--Petroleum geology)

(Chulym Valley--Gas, Natural--Geology)

POYARKOVA, Z.N.

Stratigraphy of Cretaceous sediments in southern and eastern
Fergana. Mat. po geol. Tian'-Shania no.3:121-133 '62.
(MIRA 16:7)
(Fergana—Geology, Stratigraphic)

POYARKOVA, Z.N.

Cretaceous sediments in the central part of the Zeravshan Basin.
Trudy VNIGRI no.131:325-388 '59. (MIRA 12:9)
(Zeravshan Valley--Geology, Stratigraphic)

SIDAKOV, S.N.; KLEYNBURG, V.G.; VOROB'YEV, A.A.; ZAPUDSKAYA, M.A.;
NARIZHNAYA, V.Ye.; POYARKOVA, Z.N.; KHUTOBOV, A.M.; VASILENKO,
V.K., red.; DAYEV, G.A., vedushchiy red.; GENHAD'YEVA, I.M.,
tekhn. red.

[Geological structure and oil potential of Fergana] Geologicheskoe
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nyi institut. Trudy, no.110). (MIRA 11:6)
(Fergana--Petroleum geology)

POYARKOVA, Z.N.

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Turkestan Ranges. Uch.zap.Len.un. no.189:27-53 '55.

(MIRA 8:12)

(Zeravshan Range--Lamellibranchiata, Fossil) (Turkestan Range-
Lamellibranchiata, Fossil)

ARISTOVA, K.Ye.; POYARKOVA, Z.N.; FOKINA, N.I.

Spore-pollen complexes in upper Cretaceous deposits of the
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no.9:141-148 '60. (MIRA 14:7)

(Fergana—Palynology)

BOYANOVNA, E. B.

"Cretaceous Deposits of the Zeravshan-Gissarak Region."
Sov. Geol-Min Sci, Leningrad State U, Leningrad, 1953. (ZhGeol,
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SO: Sum. No. 70, 29 Sep 55--Survey of Scientific and Technical
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15

O.A. POYASOV, N.P.

Method of analyzing soil air. P. V. Vershinin and N. P. Poyasov. *Doklady Vsesoyuz. Ordenn Lenina Akad. Sel'khoz. Nauk im. V. I. Lenina* 15, No. 6, 34-8(1959).—A sampling device for taking samples of air at various depths in the soil profile is described and illustrated. It is claimed that the CO₂ and O content can be accurately measured.
J. S. Joffe

VERSHININ, P.V.; POYASOV, N.P.

Methods for studying soil air. Sbor. trud.po agron. fiz. no.5:17-25
'52. (MIRA 11:7)

(Gases in soils)

POYASOV, N.

"The Diffusion of Gases as a Basic Factor in Soil Aeration." Cand
Biol Sci, Leningrad State U, 1953. (RZhBiol, No 6, Nov 54)

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Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

REVUT, I.B.; POYASOV, N.P.

Some physical conditions in structural soils with relation
to the amount of silt fractions present. Sbor.trud.pc agron.
fiz. no.6:226-242 '53. (MIRA 11:7)
(Soil physics)

POYASOV, N. P.

phys / Gas analyzer. N. P. Poyasov. U.S.S.R. 103,583, Aug.
25, 1956. The app. is for analyzing CO₂ and O in the air.
M. H.

1

USSR / Soil Science. Physical and Chemical Properties J
of Soils.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95721.

Author : ~~Poyasov, N. P.~~

Inst : Not given.

Title : Quantitative Determination of Oxygen Dissolved
in Soil Water.

Orig Pub: Byul. nauchno-tekhn. inform. po agron. fiz., 1957,
No 3, 30-32.

Abstract: During a study of the reasons why winter crops
die from soaking under lengthy flooding of the
young crop, the O_2 content in the surface and
soil waters was determined. Samples of soil
water taken were put in containers. A scheme is
cited of attachments for enclosing the soil sam-
ples. The determination of the O_2 content in the

Card 1/2

USSR / Soil Science. Physical and Chemical Properties of Soils. J

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95721.

Abstract: water was made by the iodometric method. The results of the tests showed that the death of winter rye occurs with the complete disappearance of O_2 from the soil water. Observations were conducted on young rye crops in the "Vostok" Sovkhoz, Leningradskaya Oblast. -- N. G. Minashina.

Card 2/2

POYASOV, N.P., kand.biologicheskikh nauk; AGAFONOV, O.A.

Role of polymers in the increase of soil fertility. Zemledelie 23
no.12:70-73 D '61. (MIRA 15:1)

1. Agrofizicheskiy nauchno-issledovatel'skiy institut.
(Soil fertility) (Polymers) (Soil conditioners)

VERSHININ, Petr Vasil'yevich; MEL'NIKOVA, Mariya Konstantinovna; MICHURIN, Boris Nikolayevich; MOSHKOV, Boris Sergeyevich; POYASOV, Nikolay Petrovich; CHUDNOVSKIY, Abram Filippovich, prof.; IOZZE, A.F., akademik, red.; REVUT, I.B., kand.sel'skokhoz.nauk, red.; ORLOVA, L.I., red.; POL'SKAYA, R.G., tekhn.red.

[Principles of agricultural physics] Osnovy agrofiziki. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 903 p. (MIRA 13:2)
(Agricultural physics)

NERPIN, S.V., red.; MEL'NIKOVA, M.K., red.; CHUDNOVSKIY, A.F.,
red.; REVUT, I.B., red.; STEPANOV, L.N., red.; POYASOV,
N.P., red.

[Collection of papers on study methods in the field of
soil physics] Sbornik rabot po metodike issledovaniy v
oblasti fiziki pochv. Leningrad, Agrofizicheskii nauchno-
issl. in-t, 1964. 320 p. (MIRA 17:12)

1. Soveshchaniye po koordinatsii i metodike nauchno-
issledovatel'skikh rabot v oblasti fiziki pochv, Leningrad.
2. Agrofizicheskii nauchno-issledovatel'skiy institut,
Leningrad (for all except Nerpin).

POYCHENKO, A.P.

Inspection of the automatic power governor set. Elek. i tepl. tiaga
6 no.8:35 Ag '62. (MIRA 17:3)

1. Master lokomotivnogo depa Pomoshnaya Odesskoy dorogi.

POYCHENKO, A. P., master

Several recommendations concerning the start of a diesel engine. Elek. i topl. tiaga 6 no.9:37 S '62.
(MIRA 15:10)

1. Depo Pomoshnaya Odesskey dorogi.
(Diesel engines)

POYCHENKO, V.

"There is no place for smuts in the fields." Zashch. rast.
ot vred. i bol. 10 no.8:10-12 '65. (MIRA 18:11)

1. Nachal'nik Krymskoy stantsii zashchity rasteniy.

POYCHENKO, V.

Phylloxera in the Crimea. Zashch. rast. ot vred. i bol. 10
no.1:44-45 '65. (MIRA 18:3)

1. Nachal'nik oblastnoy stantsii zashchity rasteniy, Simferopol'.

POYCHENKO, V.M. [Simferopol']

Practices used in Crimea. Zashch.rast.ot vred. i bol. 4 no.4:45-46
Jl-Ag '59.

- (MIRA 16:5)
1. Nachal'nik Gosudarstvennoy inspeksii po karantinu rasteniy.
(Crimea-Phylloxera-Extermination)

POYCHENKO, V.M.; GORETSKAYA, I.N.

Measures for localizing the San Jose scale in the Crimea. Zashch.
rast. ot vred. i bol. 7 no.9:48-49 S '62. (MIRA 16:8)

1. Nachal'nik Krymskoy oblastnoy karantinnoy inspeksii (for
Poychenko).
(Crimea--San Jose scale--Extermination)

POYCHENKO, V.M.

Communal aid in protecting the green riches. Zashch.rast.ot vred
i bol. 7 no.6:55 Je '62. (MIRA 15:12)

1. Nachal'nik Krymskoy karantinnoy inspektsii.
(Crimea—Plants, Protection of)

POYDA, A.A.; KOKOSHINSKIY, I.G.; TITOV, A.N., retsenzent; MOISEYEV, G.A., retsenzent; KHARLAMOV, P.G., retsenzent; KESAREV, A.P., retsenzent; RUKAVISHNIKOV, Yu.A., retsenzent; MEDVEDEV, G.G., retsenzent; PALKIN, A.P., retsenzent; BOL'SHAKOV, A.S., retsenzent; KHITROVA, N.A., tekhn.red.

[Mechanical equipment of diesel locomotives] Mekhanicheskoe oborudovanie teplovozov. Moskva, Transzheldorizdat, 1963. 463 p. (MIRA 17:2)

POYDA, A.A., doktor tekhn.nauk, prof.; MOISEYEV, G.A.

We should tolerate no delay in the manufacture of standardized diesel locomotive engines. Elek. i tepl. tiaga 7 no.4:5-7
Ap '63. (MIRA 16:5)

1. Glavnyy spetsialist Glavnogo upravleniya lokomotivnogo khozyaystva Ministerstva putey soobshcheniya (for Moiseyev).
(Diesel locomotives) (Diesel engines)

Name: POYDA, Afanasiy Arsent'yevich

Dissertation: Problem of Consumption of solid fuel in Locomotives

Degree: Doc Tech Sci

Affiliation: [not indicated]

Defense Date, Place: 15 Apr 55, Council of All-Union Sci Res Inst of
Railroad Transport

Certification Date: 15 Sep 56

Source: BMVO 6/57

KOVACHEVICH, P.M.; POYDA, A.G.; SHIROKOV, A.P.; FAYNER, I.A.; BALIBALOV, I.,
red.; RUDINA, G., tekhn. red.

[Rod bolting in the coal industry] Ankernaia krep' v ugol'noi pro-
myshlennosti. Kemerovo, Kemerovskoe knizhnoe izd-vo, 1960. 185 p.
(MIRA 14:7)

(Mine timbering)

POYDENKO, V.K.; KULAKOV, V.I., student

Earliest results of the treatment of cancer of the cervix uteri.
Nauch.trudy Chetv.Mosk.gor.klin.bol'. no.1:320-325 '61.

(MIRA 16:2)

1. Iz ginekologicheskoy kliniki (zav. - prof. V.N. Vlasov) kafedry
akusherstva i ginekologii pediatricheskogo fakul'teta (zav. -
prof. A.A. Lebedev) 2-go Moskovskogo gosudarstvennogo meditsin-
skogo instituta imeni N.I. Pirogova na baze Moskovskoy gorodskoy
klinicheskoy bol'nitsy No.4 (glavnyy vrach G.F. Papko).

(UTERUS—CANCER)

(UTERUS—SURGERY)

POYDO, A.A., kandidat tekhnicheskikh nauk

Development of diesel engine traction during the 30 years of
Soviet power. Tekh.zhel.dor.6 no.11:19-21 N'47. (MLRA 8:12)
(Diesel locomotives)

POIDO, A. A.

Teplovozy. [Diesel locomotives]. Utverzheno v kachestve uchebnika dlia podgotovki teplovoznykh mashinistov v trekhzodichnykh shkolakh. [Redaktor V. A. Drobinskii] Moskva, Gos. transp. zhel-dor. izi-vo, 1949. 494 n. illus. (Uchebniki dlia shkol mashinistov lokomotivov.

DLC: TJ619.P65

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952, Unclassified.

POYDO, H.A.

BARANOV, A.F., redaktor; RUDOV, E.F., redaktor; SOLOGUBOV, V.N., kandidat
 tekhnicheskikh nauk, otvetstvennyy redaktor toma; ALBEGOV, N.A.,
 kandidat tekhnicheskikh nauk; VASIL'YEV, B.K., inzhener; VERSHINSKIY,
 S.V., kandidat tekhnicheskikh nauk; VINOGRADOV, G.P., kandidat tekhnicheskikh nauk; VINOBUROV, M.V., professor, doktor tekhnicheskikh nauk; GOLOVANOV, V.G., kandidat tekhnicheskikh nauk; GORDEYEV, A.S., dotsent, kandidat tekhnicheskikh nauk; GURSKIY, P.A., dotsent, kandidat tekhnicheskikh nauk; GUREVICH, A.N., kandidat tekhnicheskikh nauk; DOMBROVSKIY, A.B., dotsent; YEGORCHENKO, V.F., professor, doktor tekhnicheskikh nauk; IVANOV, V.N., professor, doktor tekhnicheskikh nauk; KARVATSKIY, B.L., professor, doktor tekhnicheskikh nauk; KOROLEV, K.P., professor, doktor tekhnicheskikh nauk; MUCHKIN, I.N., kandidat tekhnicheskikh nauk; POPOV, G.V., inzhener; PROSKURNEV, P.G., inzhener; SAFON-TSEV, K.A., izhener; SEICHASTNOV, I.F., dotsent, kandidat tekhnicheskikh nauk; SLOMYANSKIY, A.V., dotsent, kandidat tekhnicheskikh nauk; STEPANOV, A.D., dotsent, kandidat tekhnicheskikh nauk; SYROMYATNIKOV, S.P., akademik[deceased]; TERNOVSKIY, V.A., dotsent, kandidat tekhnicheskikh nauk; TRUBETSKOY, V.A., kandidat tekhnicheskikh nauk, KHOKHLOV, N.F., kandidat tekhnicheskikh nauk; SHARONIN, V.S., kandidat tekhnicheskikh nauk; SHLYKOV, Yu.P., dotsent, kandidat tekhnicheskikh nauk; YEVTUSHENKO, A.M., kandidat tekhnicheskikh nauk, retsenzent; IVANOV, V.N., professor, doktor tekhnicheskikh nauk, retsenzent; PANOV, M.I., dotsent, kandidat tekhnicheskikh nauk, retsenzent; SLOMYANSKIY, A.V., dotsent, kandidat tekhnicheskikh nauk, retsenzent; UTYANSKIY, L.I., inzhener, retsenzent; NEFYKSA, V.M., professor, doktor tekhnicheskikh nauk, retsenzent;

(Continued on next card)

BARANOV, A.F., -- (Continued) Card 2.

TOPORNIN, G.S., inzhener, retsenzent; DOMBROVSKIY, A.B., dotsent; retsenzent; POYDO, A.A., kandidat tekhnicheskikh nauk, retsenzent; YAKOBSON, P.Ye., laureat Stalinskoy premii; dotsent; kandidat tekhnicheskikh nauk, retsenzent; POPOV, A.A., professor, doktor tekhnicheskikh nauk, retsenzent; PROSKURNEV, P.G., inzhener, retsenzent; SAFONTSEV, K.A., inzhener, retsenzent; SERAFIMOVICH, V.S., kandidat tekhnicheskikh nauk; retsenzent; TRAVIN, P.I., inzhener, retsenzent; FOKIN, K.F., kandidat tekhnicheskikh nauk, retsenzent; SHCHERBAKOV, V.P., inzhener, retsenzent; SHADUR, L.A., dotsent; kandidat tekhnicheskikh nauk, retsenzent; TIKHONOV, P.S., inzhener retsenzent; TKACHENKO, F.D., inzhener; retsenzent; BABICHEV, A.M. professor, doktor tekhnicheskikh nauk, retsenzent; KOROSTYLEV, A.I. inzhener, retsenzent; LEVITSKIY, V.S., dotsent; kandidat tekhnicheskikh nauk, retsenzent; KLYKOV, A.F., inzhener, retsenzent; SOLOGUBOV, V.N. redaktor; SHISHKIN, K.A., redaktor; SLOMYANSKIY, A.V. redaktor; SALENKO, S.V., redaktor; YUDZON, D.M. tekhnicheskii redaktor.

[Technical reference book for railroad men] Tekhnicheskii spravochnik zheleznodorozhnika. Redaktsionnaya kollegiya: A. F. Baranov, i dr. Glav.redaktor. E. F. Rudoi. Moskva, Gos.transp.zhel-dor.izd-vo. Vol. 6 [Rolling stock] Podvizhnoi sostav. 1952. 955 p. (MLRA 8:9) (Railroads--Rolling-stock)

POYDO, A.A.

KHOKHLOV, T.N., rukovoditel' teplovoznogo otdeleniya; POYDO, A.A.;
FUFRIYANSKIY, N.A.; FOLODIN, A.I.

Gas turbine locomotives. Trudy TSNI MPS no.87:5-51 '54.
(Gas turbine locomotives) (MLRA 8:3)

POYDA, A. A.

"The Problem of Using Solid Fuels in Locomotives." Dr Tech Sci, All Union Sci
Res Inst of Railroad Transport Engineers, Min Railways USSR, Moscow, 1955. (XL,
No 16, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended
at USSR Higher Educational Institutions (16).

POYDO, A A, ED.

N/5
741.31
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Untersuchungen Über Den Betrieb Mit Diesellokomotiven. Hrsg. von Der
Lehrmittelstelle Der Deutschen Reichsbahn. Leipzig, Fachbuchverlag, 1955.
157 p. Illus., Diagr., Tables.
Translation from the Russian: "Issledovaniya Teplovoznoy Tyagi", Moscow
1951.
Includes Bibliographies.

Poyda H.A.

POYDA, Afanasiy Arsent'yevich; KOKOSHINSKIY, Ivan Grigor'eyvich; GALANOVA,
M.S., inzh., red.; KHITROV, P.A., tekhn.red.

[Working principle and repair fo diesel locomotives] Ustroistvo i
remont teplovozov. Moskva, Gos.transp.zhel-dor. izd-vo. Pt.1.

[Diesels, auxiliary equipment and cars] Dizel', vspomogatel'noe
oborudovanie i ekipazh. 1957. 490 p. (MIRA 11:2)

(Diesel locomotives--Maintenance and repair)

FUFRIYANSKIY, N.A., prof.; POYDA, A.A., prof.; YEGUNOV, P.M., kand.tekhn.nauk,
starshiy nauchnyy sotrudnik

High-temperature cooling of diesel locomotive engines. Elek. i
tepl.tiaga no.8:42-44 Ag '63. (MIRA 16:9)

1. Rukovoditel' otdeleniya teplovozov i lokomotivnogo khozyaystva
Vsesoyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo
transporta Ministerstva putey soobshcheniya (for Fufryanskiy).
 2. Vsesoyuznyy zaochnyy institut inzhenerov transporta (for Poyda).
 3. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo
transporta Ministerstva putey soobshcheniya (for Yegunov).
- (Diesel locomotives—Cooling)

POYDO, A. A., prof.; TOLKACHEV, V. P., inzh.; MURZIN, L. G.

Replies to the inquiries of our readers. Elek. i tepl. tiaga 6
no.9:41 S '62. (MIRA 15:10)

1. Nachal'nik otdela teplotekhniki Glavnogo upravleniya lokomo-
tivnogo khozyaystva Ministerstva putey soobshcheniya.

(Diesel locomotives)

POYDA, A.A., prof.; BOLKHOVITINOV, G.F., prof., doktor tekhn. nauk

Improving diesel locomotive engines. Zhel. dor. transp. 41 no.10:22-27
0 '59. (MIRA 13:2)

1. Rudovoditel' dizel'noy laboratorii Vsesoyuznogo nauchno-issledovatel'-
skogo instituta zheleznodorozhnogo transporta Ministerstva putey
soobshcheniya (for Poyda).
(Diesel locomotives)

POIDO, A. A. and O. I. RUDAIA

Teplovozy: Utverzheno v kachestve uchebnika dlia podgotovki teplovoznykh mashinistov v trekhgodichnykh shkolakh. (Redaktor V. A. Drobinskii) Moskva, Transzheidorizdat, 1949. 494 p. illus. (Uchebniki dlia shkol mashinistov locomotivov)

Diesel locomotives.

DLC: TJ619.F65

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

POYDO D. A.

10T92

USSR/Locomotives, Diesel
Railroads - Rolling stock

May/Jun 1946

"A Powerful Soviet Diesel Locomotive," D. A. Poydo,
2 pp

"Zheleznodorozhnyy Transport" No 5/6

Describes type Da Diesel Locomotive. Performance and
some other data.

10T92

LEYPUNSKIY, A.I.; KAZACHKOVSKIY, O.D.; AFRIKANTOV, I.I.; PINCHASIK,
M.S.; KRASNOYAROV, N.V.; POYDO, M.S.

Sodium-cooled fast reactors. Atom. energ. 17 no.5:345-348
N '64.

(MIRA 17:12)

L 20049-65 EPF(c)/EPF(n)-2/EPR/EPA(s)-2/ENT(m)/EPA(bb)-2/EWP(b)/EWP(t)
Pr-4/Ps-4/Pt-10/Pu-4 SSD/AFWL/IJP(c) DM/WW/JD/JG
ACCESSION NR: AP4049534 5/0089/64/017/005/0345/0348

AUTHORS: Leypunskiy, A. I.; Kazachkovskiy, O. D.; Afrikantov, I. I.;
Pinkhasik, M. S.; Krasnoyarov, N. V.; Poydo, M. S.

TITLE: Sodium cooled fast reactors 19

SOURCE: Atomnaya energiya, v. 17, no. 5, 1964, 345-348

TOPIC TAGS: power reactor, liquid metal cooled reactor, fast reactor/BN-350 19

ABSTRACT: The first fast-neutron power reactor now being designed in the SSSR (BN-350) is described. It is rated 1000 MW thermal and 350 MW electrical. Sodium coolant at 300C (total volume 165 m³) is heated in the reactor to 500C by about 200 fuel elements. The volume of the active zone (~2000 liters) and the power ratio (500 kW/liter) ensure a minimum use of fuel in the cycle. The ratio of the diameter of the active zone to its height (D/H) is 1.4 (D = 1.5

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L 20049-65

ACCESSION NR: AP4049534

m, H = 1.06 m), the maximum sodium speed is 10 m/sec, the thickness of the breeder zones on the periphery and on the end is 60 cm. The construction permits the active zone size to be varied and to use different types of fuel elements. A ceramic fuel element is used consisting of a mixture of plutonium dioxide (19% Pu) and U²³⁸. Enriched (23%) uranium dioxide can also be used. The fuel rod is a stainless steel tube 5 mm in diameter and 0.4 mm thick, filled with pellets of the sintered fuel. The arrangement of the active and breeder zones is such as to produce a conversion ratio ~1.5. The internal conversion ratio is 0.62. The change in reactivity is 0.6% per month and is compensated by motion of central fuel elements with a reactivity margin of 1.4%, permitting 2 months' continuous operation. The shielding, control, and safety precautions are described. The sodium flows through a heat exchanger in which steam is produced at 430C and 50 atm pressure. Some improvements are suggested for future designs on the basis of the experience already gained in the design of the BN-350. Orig. art. has: 1 figure.

Card 2/3

5

L 5171-66 AFA(s)-2/INT(a)/OFF(c)/OFF(n)-2/INT(a)/T/EN(t)/EN(b) IJ(c)
 ACCESSION NR: AT5022451 CB/EN/US UR/0000/65/000/000/0001/0030

AUTHOR: Leypunskiy, A. I.; Kazachkovskiy, O. D.; Pinkhasik, M. S.;
Krasnoyarov, N. V.; Bagdasarov, Yu. Ye.; Troyanov, M. F.; Milovidov,
I. V.; Afrikantov, I. I.; Poydo, M. S. (Deceased); Stekol'nikov, V.V.

TITLE: BN-350 nuclear power plant

SOURCE: Obninsk. Fiziko-energeticheskiy institut. Doklady, 1965.
 Atomnaya stantsiya BN-350, 1-30

TOPIC TAGS: nuclear power plant, liquid metal cooled reactor,
 fast reactor, nuclear reactor technology, desalination

ABSTRACT: After a brief discussion of the advantages of using fast
 neutron reactors for power production, a new 350 Mw fast neutron
 sodium cooled reactor of BN-350 type is described. At present, a
 power plant equipped with such reactors and P-50 back pressure steam
 turbines is under construction in the Mangyshlak peninsula area at
 the northeastern coast of the Caspian Sea. The dual-purpose plant
 will generate 150 Mw of electric power and produce 1200 ton/hr of

Card 1/4

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L 5171-66

ACCESSION NR: AT5022451

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steam. The steam will be used by a desalting plant designed to supply 120,000 cu m of fresh water per day. It is expected that the power plant will be put into operation in 1968 or 1969. The primary and the secondary intermediate loops of the reactor will be cooled by liquid sodium. The third loop will be of steam-water type. The reactor core carries 211 hexagonal fuel assemblies each containing 169 uranium-dioxide elements. At the beginning, a compound of uranium-dioxide and plutonium will be used in fuel elements. There are 120 inner and 320 outer assemblies placed in concrete shields. The selected essential data on BN-350 reactor are as follows:

Thermal power	1000 Mw
Core Volume	1.87 cu m
Core diameter	1.495 m
Core height	1.06 m
Vessel diameter	6 m
Vessel height	2.2 m
Coolant temperature (inlet)	300 C
Coolant temperature (outlet)	500 C

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Many other details and data are given on reactor core and concrete shielding as well as on the reactor tank made of X18H9 stainless steel. A special chapter is devoted to the discussions of various control systems including power control, measurements, automatic regulation, reactivity compensation, and emergency protection. The replacement and handling of fuel elements is also discussed. The radiation shielding is briefly described. Some information is given on the selection of materials as well as on the experimental investigation of various control and safety systems. An extensive analysis of heat transfer system is also presented dealing with primary and secondary loops, heat exchanger, pumps, piping, emergency heat removal, steam generators and other equipment. In conclusion, some further possible improvements in the design and operation of fast neutron reactors are outlined including a more efficient burn-up of

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fuel elements, a further increase in temperature and an eventual use of fuel carbides instead of oxides. Orig. art. has: 2 tables and 6 figures.

ASSOCIATION: none

SUBMITTED: 02Mar65

ENCL: 00

SUB CODE: EE, NP

NO REF SOV: 000

OTHER: 000

Card 4/4 *md*

L 44005-66 EWT(m)/EWP(t)/T/ETI/EWP(k) IJP(c) JD/HW
 ACC NR: AP6029871 SOURCE CODE: UR/0413/66/000/015/0022/0022

INVENTOR: Voronov, F. D.; Filatov, A. D.; Gun, S. B.; Selivanov, N. M.; Nosov,
V. D.; Savel'yev, G. V.; Goncharov, F. I.; Plotnikov, P. I.; Roshkov, S. A.;
Kustobayev, G. G.; Polushkin, V. P.; Arkhipov, V. M.; Uziyenko, A. M.; Kolov, M. I.;
Kozhevnikov, V. P.; Shapiro, B. S.; Kalugin, V. F.; Grudev, P. I.; Aksenov, B. N.;
Khomyachkov, A. P.; Rudakov, Ye. A.; Kuzema, I. D.; Gomzhin, V. V.; Poydyshev, B. N.;
Shternov, M. M.

ORG: none

TITLE: Method of making high-strength steel plates by pack rolling. Class 7,
 No. 184232

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 22

TOPIC TAGS: high strength steel, high strength steel plate, high strength
 steel sheet, steel plate rolling, steel sheet rolling

ABSTRACT: This Author Certificate introduces a method of pack rolling high-strength
 steel plates and sheets up to 10 mm thick and up to 3500 mm wide in a carbon steel
 envelope. The method includes cleaning, coating, making of the pack, heating,
rolling and subsequent heat treatment. To ensure an accurate thickness of the plates

Card 1/2 UDC: 621.771.23

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ACC NR: AP6029871

or sheets regardless of their location in the pack, the thickness of the envelope must be at least 0.6 of the total initial thickness of the high-strength plates of the pack. [ND]

SUB CODE: 13/ SUBM DATE: 18Jun64/ ATD PRESS: 5070

Card 2/2 blg

VOROB'YEVA, Ye.A.; POYEDINOK, N.T.

Determining the sugar content of beets with rotten roots. Sakh.prom. 27
no.7:18-20 JI '53. (MLRA 6:6)

1. Kazakhstanskiy filial Tsentral'nogo nauchno-issledovatel'skogo instituta
sakharnoy promyshlennosti. (Beets and beet sugar--Analysis)

KHELEMSKIY, M.Z.; POYEDINOK, N.T.

Effect of radioactive irradiation on the conditions of sugar
beets in storage. Sakh.prom.30 no.10:16-19 0 '56. (MLBA 10:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy
promyshlennosti.

(Sugar beets--Storage) (Radioactivity)

POTAP'YEVSKIY, A.G.; POYEDINOK, Ye.T.

VS-300 type rectifier for welding in carbon dioxide. Avtom.
svar. 15 no.8:76-78 Ag '62. (MIRA 15:7)

1. Ordena Trudovogo Krasnogo Znameni institut elektrosvarki
imeni Ye.O. Patona AN USSR (for Potap'yevskiy). 2. Kiyevskiy
zavod elektroizmeritel'noy apparatury (for Poyedinok).
(Electric welding—Equipment and supplies)

POYEDINOK, YE. T.

USSR/Physics
Phase Meters
Instruments, Electronic

May 1947

"Theory of the Phase Meter, "Prof A. D. Nesterenko, Dr. of Technical Sciences,
Ye. T. Poyedinok, Engr, Institute of Energetics, Academy of Sciences of USSR,
Kiev Polytechnical Institute

"Elektrichestvo" No 5

Summarizes the basic relationships between the angle of inclination of the movable parts of the phase meter and their parameters. Discusses the effect of change of the parameter of the apparatus on the opening span of the scale and on its character. In conclusion, authors discuss the case for a specifically established moment and shows the effect of the selected parameter on the change of the moment along the scale.

PA40T9a

ZHURAVLEV, V.P.; SHILENKOV, V.N.; RYZHIKH, L.I.; POYELUYEV, A.P.; BOGACHEV, V.P.

Wetting of coal seams with solutions for the decrease of dust formation and coal loosening, as well as for the control of gas liberation and prevention of endogene fires. Ugol' 40 no.8:65-68 Ag '65.

(MIRA 18:8)

POYELUYEV, A.P., inzh; ZHURAVLEV, V.P., kand. tekhn. nauk; RYZHIKH, L.I.,
inzh.

Increasing the effectiveness of spraying in the work of extracting
cutter-loaders in the Karaganda Basin. Bor'ba s sil. 6:37-42 '64
(MIRA 12:2)

1. Karagandinskiy nauchno-issledovatel'skiy ugol'nyy institut.

SHILENKOV, V.N.; ZHURAVLEV, V.P.; POYELUYEV, A.P.; RYZHIKH, L.I.; SHACHKOV,
Ye.Z.

Raising the efficiency of coal mining with cutter-loaders by
weakening the massif by wetting it . such. trudy KNIUI no.13:
29-38 '64 (MIRA 18:1)

POYELUYEV, A.P.; SHILENKOV, V.N.

Efficiency of preliminary wetting of coal in binding various size particles
of dust. Nauch. trudy KNIIT no.16:14-16 '64. (MIRA 18:7)

ZHURAVLEV, V.P.; POYELUYEV, A.P.

Increasing the efficiency of sprinkling during the operation of the K-52m cutter-loader. Nauch. trudy KNIUI no.16:17-19 '64,

Effect of sprinkling on the disperse composition of dust formed during the operation of mining cutter-loaders. Ibid.:19-22 (MIRA 18:7)